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TITLE: An ayurvedic nutricinal preparation.

FIELD OF INVENTION: The invention relates to an ayurvedic nutricinal preparation, essentially from nuts of the anacardiaciae family, Allium Sativum Linn and Zingiber Officinale Rosc for use as a prophylatic cardiac tonic, for general revitalization of the human body and for increasing cardiac muscle tonicity.

BACKGROUND OF THE INVENTION: Several ayurvedic preparations are in use for the treatment of heart ailments and as a prophylatic preparation for cardiac care. Most commonly used and reported are extracts or preparations from the plant Terminalia arjuna. Patent Application No: 1184/MUM/2001 describes a process for an ayurvedic preparation from Terminalia arjuna bark, Acorus calmus stem, Magnifera indica bark, Moringe oelifera bark, Murraya koengil leaf, Pipeer longumfruit, Boerhaavia diffusa root. The presently known ayurvedic preparations are very selectively effective.

The present invention describes for the first time a formulation for a complete ayurvedic preparation, made essentially from nuts of plants belonging to the genus anacardiaciae, revitalising the human body. The preparation enhances the tonicity of the heart muscles, increases the production of blood by the marrow, reduces occlusion of arteries, improves myocardial blood flow and prevents cardiac ailments.

Nuts from the anacardiaciae family contain toxins and irritants, and cause contact dermatitis, because of which rash and irritation occurs. Hence its nutricinal value has been explored only in a limited way for cancer, gastric infections and fungal. infections but not in respect of cardiovascular treatment. The invention also describes for the first time the use of nuts of the anacardiaciae family from which the toxic irritants are removed, and is combined with the extract of Allium Sativum Linn and Zingiber Officinale Rosc for treatment of cardiac ailments.

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SUMMARY: In its main aspect the invention consists of an ayurvedic nutricinal preparation for use as a prophylactic for cardiac ailments and for increasing cardiac muscle tonicity. The principal ingredient used is a nut oil extract prepared from clean and dried nuts from plants of the genus anacardiaciae, and an extract of Allium Sativum Linn and Zingiber Officinale Rosc in vegetable oil. To obtain a nut oil extract, the nuts are cleaned and dried and the toxins and irritants contained in the nuts, are removed or deactivated by repeated cooking and drying of the nuts in milk to obtain pure detoxified nuts. The oil in the nuts which is the essential ingredient for this invention, is extracted by boiling the detoxified nuts in a medium of clarified butter, preferably obtained from cow's milk, until all the moisture is removed. In another aspect of this invention, 5 proportions by weight of ghee is used for every 2 proportions by weight of nuts. The medium is maintained at a temperature of 50° to 80°, for an extended period of time until the medium is absolutely moisture free. An extract of Allium Sativum Linn and Zingiber Officinale Rosc is obtained by cooking the two in a moisture free vegetable oil. The nut oil extract and the Allium Sativum Linn and Zingiber Officinale Rosc extract are filtered separately and mixed together.

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In another aspect of this invention, the nuts used are either of the species Semecarpous Anacardium Linn or Anacardium Occidenatale Linn.

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In a further aspect of this invention Zingiber Officinale Rosc and Allium Sativum Linn are used in a proportion of 1:2 by weight in vegetable oil of 3 proportions by weight, and mixed with filtered nut oil extract obtained from 2 proportions by weight of nuts.

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In yet another aspect of this invention the vegetable oil used is purified oil from Ricinus Communis Linn.

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In a final aspect of this invention, the ayurvedic nutricinal preparation as described above is made available in soft gelatin capsules.

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**DESCRIPTION:** The following description of the formulation is the best known method of working this invention.

In its main embodiment the invention consists of a nutricinal preparation for use as a prophylactic for cardiac elements and for increasing cardiac muscle tonicity.

## It comprises essentially of

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- i) a nut oil extract in clarified butter. The nut oil extract is obtained from clean, dried and processed nuts from the plants of the genus anacardiaciae.
- ii) An extract of Allium Sativum Linn and Zingiber Officinale Rose, which is prepared in moisture free vegetable oil

The nuts of the anacardiaciae family are cleaned and dried. Subsequently they are cooked in milk and dried. The process is repeated several times to obtain pure detoxified nuts from which the irritants and toxins have been removed or deactivated. Nuts preferably used are from the plants of Semecarpous Anacardium Linn or Anacardium Occidenatale Linn. The detoxified nuts are boiled in a medium of clarified butter (ghee), until all the moisture is removed and the spluttering of the medium ebbs. Clarified butter made from cow's milk is preferred. For every 2 proportion by weight of nuts, 5 proportion by weight of ghee is used. The medium is maintained at a temperature of 50° to 80° for an extended period of time to ensure removal of any remainder moisture. By the aforesaid process the essential oil from the nut is extracted in to the medium. By a separate process, Zingiber Officinale Rose and Allium Sativum Linn in a proportion of 1:2 by weight is cooked in purified moisture free vegetable oil, preferably oil from Ricinus Communis Linn, to obtain a Zingiber Officinale Rose - Allium Sativum Linn extract. The Zingiber Officinale Rose - Allium Sativum Linn extract and the nut oil extract are separately filtered to remove all solid particles and mixed together.

In the preferred embodiment of this invention, 1:2 proportion by weight of Zingiber Officinale Rosc and Allium Sativum Linn are cooked in 3 proportions by weight of vegetable oil, . The filtered extract of Zingiber Officinale Rosc and Allium Sativum Linn so obtained is mixed with filtered nut oil extract obtained from 2 proportions by weight of nuts.

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The viscous liquid is ready for use in doses proportional to age and body weight of the consumer. The viscous liquid may also be encapsulated in soft gelatin capsules for dispensing.

The following are examples of some in vivo clinical trials conducted, on the basis of oral administration of said ayurvedic nutricinal preparation:

## Comparative Study of I.H.D (Ischemic Heart Disease) Patient Before and After Administration of CF1 Based on Symptoms and 2D Echo / Color Doppler

10 Period of diagnosis **Symptoms** Report **Symptoms** Report of post Remarks No pretreatment pretreatment treatment Post treatment treatment With CF1 2D Echo 2D Echo 1-0 X 90 -NIL -Global -Overall 001 I.H.D'. -Breathlessness on -Severe global -Can walk hypokinesia good mild effort hypokinesia -Severe chest pain -Severe LV® comfortably 2-3 reduced improvement -Moderate LV<sup>■</sup> on walking dysfunction kms. -Giddiness -Severe PAHv® dysfunction -LVEF™ 15-20% -Mild PAHV® -LVEF\* 34% 003 I.H.D. -Angina on mild--Distal IVS\*, 1-0 X 60 -Angina -No regional wall -Overall effort apex and reduced motion good -breathlessness on anterior wall -Breathlessness abnormality at rest improvement -Normal atrio--Maintained effort hypokinetic reduced to -unable to climb -Trivial MRv,TRvi marked extent ventricular and good health and PRvi stairs semilunar valves -LVEF™ 50% -LVEF\* 60% Normal LV® systolic function

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No	diagnosis	Symptoms	Report of	Period of	Symptoms	Report of post	Remarks
₹,		pretreatment	pretreatment	treatment	Post treatment	treatment	
	 	·	2D Echo	With CF1		2D Echo	
	I.H.Di.	-general debility	•	2-0 X 105	-Breathlessness	-LVEF -35%	-Overall
		-Chest pain and	-Distal IVS× &		reduced	-Distal IVS×& LV®	good
		breathlessness on	LV <sup>a</sup> is akinetic		-chest pain	hypokinetic	improvement
		effort	-LVEF™- 30%		occassional	-No evidence of	-Maintained
			-Evidence of		-improved	clot in LAx or LVa	good health
			organised clot		appetite	-Normal LV®	
			at LV <sup>®</sup> Apex		-general feeling	diastolic function	
			-LV <sup>®</sup> diastolic		of well being .		
			dysfunction				
011	I.H.D.	-Chest discomfort	-Ischemic heart	2-0 X 120	-Chest	-Normal sized LV	-overall good
		-Pain in left arm	disease		discomfort	-Normal systolic &	recovery
		-Weakness	-Hypokinetic		reduced	diastolic function	
			inferior and		pain in the left	-LVEF™78%	
			apical segments		arm	No mitral valve	
			-LVEF* 45%		disappeared	prolapse	
			!		-feeling of well	-No segmental	
					being	wall motion	
	1				i i	anomaly.	
012	I.H.D.	-Breathlessness	-Ischemic heart	2-0 X 90	-No	-Normal LV	-Overall
		-Chest pain on effort	disease		breathlessness	function	gcod
		-Heart burn	-LVEF™ 39%		-No chest pain	-LVEF* 55%	recovery
		frequently	•		-No heart burn -		
					working 8-10		
					hrs a day		

I.H.D - Ischemic Heart Disease i.

LV - Left Ventricle ii.

LVEF – Left Ventricle Hypertrophy M.R.- Mitral Regurgitation **!!!**.

iv.

T.R.- Tricuspid Regurgitation V.

vi . P.R.- Pulmonary Regurgitation vii. P.A.H.- Pulmonary Artery Hypertrophy

viii. L.A.- Left Auricle

ix. I.V.S.- Inter Ventricular Septum